Energy Performance Monitoring Tips from Emmanuel Ledesma PSALM

Emmanuel Ledesma PSALM, an expert in energy management, can assist firms track their energy performance. It's possible to see how energy efficiency is changing over time with the help of energy performance tracking. Tracking energy use on a monthly basis can assist in the following ways:

- Analyze the impact of any recent energy-saving initiatives.
- Be on the lookout for previously eradicated waste that could try to make a comeback.
- Check to see if the goals have been reached.

Monthly monitoring of energy use is rather typical. It's not as simple as comparing one month's total energy use to the next to measure month-to-month energy performance properly. Mistakes in the calculating process might lead people to believe that energy performance has improved or worsened, while in reality the differences are due to inaccuracies.

When it comes to measuring a building's monthly energy use, Emmanuel Ledesma PSALM has some advice for you.

1. Consider the Monthly Variation

Depending on the month and whether or not it's a leap year, months have varying durations.

Some months have more Sundays than Mondays; other months fewer Sundays and more Mondays. This is due to the fact that weeks and months don't always line up perfectly.

In order to effectively compare one month's energy use to another, month-to-month variations make it challenging. In order to erase these disparities, however, you must follow the succeeding tips.

2. Only Use Kw for Monthly Comparison

It is not accurate to compare the kWh that was used in one month with the kWh that was used in another month because of the aforementioned monthly variance. The use of the average kW (power), on the other hand, removes the factor of time from the calculation and produces results that can be meaningfully compared to one another.

3. Only Compare Periods with Similar Energy Consumption Characteristics

It is essential to analyze only those times and days that have energy consumption patterns that are comparable to one another if you want your energy performance tracking to be successful.

For this instance, a company that operates on a Monday through Friday schedule might efficiently monitor the following monthly energy performance metrics:

- Monday through Friday are the working days of the week; weekends, holidays, and other non-working times are not included.
- Working days of the week – occupied hours only: like in the previous example, but with the periods constrained to, say, 9:00 to 17:00.
- Weekends consist only of Saturdays and Sundays.

When you do this, you eliminate the possibility of encountering an issue brought on by the fact that week’s do not cleanly overlap with months when you are comparing the energy performance of one month to another.

4. Ensure Quality Energy Consumption Data

It is essential for any company to have data of a high quality. It is essential to ensuring compliance, streamlining budgeting processes, and meeting or even exceeding targets for reducing carbon emissions. In addition to this, it makes it possible to have total transparency in the effort to reduce consumption.

Emmanuel Ledesma PSALM is of the opinion that quality data must contain the following characteristics in order to permit the most accurate monitoring, targeting, and reporting of energy and consumption.

- Correctness: the data accurately represent what is being measured and the expected behavior of the variable being assessed.
- Completeness: all expected data is present and there are no gaps in the data.
- Timeliness: the data must be accessible to assist the timely completion of energy management responsibilities.
- Consistency: the data must adhere to a prescribed format that is in agreement with one another.

5. Take Seasonal Variation in Consideration

Typical pieces of facility equipment, such as heaters and air conditioners, have a consumption pattern that is typically greatly influenced by the changing of the seasons. Be aware that it will not be possible to make an apples-to-apples comparison of the average kW values from one month to the next if such energy uses form a significant proportion of the energy consumption that you are analyzing. This is because it will not be possible to obtain values that are comparable to one another.

The effects of seasonal variation do not, however, render monthly statistics meaningless; rather, analyzing seasonal consumption patterns via the lens of monthly figures continues to be of substantial importance.

Let Emmanuel Ledesma PSALM Provide Help You with Your Energy Management Strategy

Emmanuel Ledesma, PSALM president from 2010 to 2015, is an energy consultant in the Philippines that can help you with the energy performance monitoring of your organization.

He currently offers his energy and power consultancy service on a national scale, advising clients in a variety of industries, including as electrical networks, government, retail, manufacturing and food processing, property, information technology, agriculture, and non-governmental organizations (NGOs).

His decades of experience in both the public and private sectors have given him the opportunity to hone his skills in both the public and private sectors, allowing him to build a solid reputation in the energy industry for being completely open and impartial in the delivery of management and advisory services. This is seen in his ability to maintain long-term connections with the customers he already has.

Consulting reports are offered by Emmanuel Ledesma to a variety of clients, including private businesses, state governments, cooperatives, networks, and industry associations. These studies address topics such as consumer rights, changes in legislation and regulations that influence electricity and gas networks, pricing, and market intelligence.

Additionally, he provides services in the areas of advice and feasibility studies for various renewable energy sources.

You can contact Emmanuel Ledesma here.